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Eddie Hutchinson will open a studio in the Pantheon Bldg., May 1st, for teaching his Easy Method in playing these instruments. Present address P. O. Box 1159.

A \$2000 contract for two tank steamers was received by the Newport News Shipbuilding Co., from the Standard Oil Co.

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LOCAL AND GENERAL

Leong Ning, a Chinese charged with having opium in his possession, was acquitted by a jury in federal court today.

A bus line has been put in operation by the Rapid Transit company on Kalia valley road in competition with the jitney busses now running there.

Several rare old books will be shown by Rev. L. L. Loofbourn in his lecture to the members of the Y. M. C. A. in Cooke hall tonight at 8 p. m., on "Some Old Books Worth Knowing." Among them are a first edition of Gibbon's "Holy Roman Empire," some Latin volumes of 1592, Daniel DeFoe's satire, "The History of the Devil," an early bound volume of Addison and Steele's "Spectator," which figured so much in the literary and political life of those days, and an original copy of the "Bishop's Bible," printed in 1578.

DAILY REMINDERS

Round the island in auto, \$4.00
Lewis Stables, Phone 2141.—Adv.
Exclusive corset shop, "The Goodwin," rms. 21-22, Pantheon bldg.—Adv.
The Ideal stars its Saturday special sales this coming Saturday. Be sure to read the ad.

New lots at Kapiolani Park on the market at \$600 and \$450. Trent Trust Co., Ltd., phone 3477.
It is easy to get messages to any incoming or departing steamer. Call Mutual Wireless—1574.

When in doubt about poultry or stock "problems," call 4121—the California Feed Company, Ltd.

You can always get your money's worth in hose if you insist on getting Phoenix Hose. To be had at the Clarion.

Be sure to try Magic Soap for laundry work—it gives better results than any other. You can get it at any grocer's.

Centennial's Best Flour makes the best bread and more loaves to the sack. Get it at Henry May & Co.'s, Ltd., phone 1271.

Employ a private detective and set your mind at rest. Call 2515—Bowers Merchant Patrol—for efficient, prompt, confidential service.

Honolulu can boast of at least one up-to-date shoe store. Latest styles may always be seen at the Manufacturers' Shoe Store on Fort street.

Don't forget the big clearing sale at Canton Dry Goods Co., Hotel street, near Fort. Big bargains in women's shoes and men's furnishings.—Adv.

The valued gift carrying no obligation—a bouquet of flowers; and you can always get fresh ones at the shop of Mrs. E. M. Taylor, opposite Young Cafe.

Environment is recognized as a strong influence in childhood. Paper your child's nursery properly. A large variety of suitable papers at Lewers & Cooke's.

Full membership privileges during the summer, four months, \$4. Swimming pool, gym, pool and billiards, bowling, reading rooms, games, etc. Phone 1340.

Monday, May 1, will mark the beginning of Whitney & Marsh's big sale of wash goods. They will put on sale their entire stock of white and colored wash fabrics at irresistible prices.

"Bits of Verse from Hawaii," a dainty book of verse collected and published by C. D. Wright, is on sale at all leading book stores and curio stores. It makes an interesting souvenir of the islands.—Adv.

Three more leaders of the striking munition makers in the Clyde River district of Great Britain were deported, making 11 in all.

The most northerly coal mine in the world is one owned by an American company at Advent Bay, on the east coast of Spitzbergen.

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FACTS ARRAYED TO SHOW NUUANU WATER A MENACE

(Continued from page one)

surface water and declares that this can be reduced to less than 10 per cent. He declares that less than 1 per cent of the daily water consumption, 324 gallons per capita, is for human use, that the other 99 per cent enters into industry and irrigation.

When he comes to consider "water supply obtainable" he rejects the figures of James T. Taylor and G. K. Harrison, engineers, who have submitted reports on the water to be obtained from Hillebrand glen based on estimates made from rainfall data, and declares that the showing made by measurements of the stream in the glen on March 29 and April 1, together with reports on the rainfall, justify the calling of a halt until absolutely accurate data can be obtained.

"By product power" calls forth the comment that the difference in elevation between Reservoirs No. 3 and No. 4 is but 49 feet and the power to be derived per million gallons but 18 h. p. on an eight-hour run and six on a 24 hour run. He approves of the proposal to connect Reservoir No. 3 with the 30-inch outlet to No. 4.

What Report Consists Of.
The first exhibit is that of S. W. Tay, sanitary engineer, whose report to the board of health dated April 28, 1915, is enclosed. He declares that No. 4 reservoir is located above all human habitation and is subject to only occasional pollution.

At time of heavy rains a great deal of organic matter is deposited in the reservoir, he says. "The washings from the Nuuanu Pali road find their way into the reservoir. A large number of persons pass over the watershed and are likely to pollute the reservoir. The reservoir is not properly protected from trespass. Quite a few persons have been seen fishing in the reservoir."

Speaking of an analysis he made of the water he says "the water is not desirable as it contains considerable organic matter, is highly colored and turbid. The bacterial count was 120 c.c., which is above the accepted count of 100 c.c." The color he blames to brush and other vegetable matter covering the reservoir site and recommends its removal.

Report on Chlorine Plant.
A report on the installation of the chlorine plant at the pumping station by Tay is the next exhibit. A table showing the amount of chlorine used daily for about a month is shown, and Tay then declares that the amount is not properly regulated. Speaking of the investigation of the additional sources of supply of surface water he says: "If the county intends to use this water in place of the water now in use on the lower levels a strong stand should be taken to prevent it, until they have improved their system of purification in a manner satisfactory to the board of health."

Ending his report he recommends that the board make a strong protest against the Nuuanu water supply. "There is no valid reason why 75 per cent of the people now supplied with Nuuanu water should not be furnished with pure and wholesome artesian water," he says.

A letter of Dr. Donald H. Currie, who is in charge of the leprosy investigation station of the United States Health Service, to Dr. J. S. B. Pratt, president of the board of health, dated December 1, 1915, declares that the danger from Nuuanu water is definite.

Next follows a letter from Dr. Pratt to Dr. Currie requesting that he answer a number of questions relative to the sanitary condition of No. 4 reservoir. This is dated February 23, 1916, and was written in response to the request of the loan fund commission that the board of health make such recommendations as it deems necessary to place No. 4 in a sanitary condition. It is this letter that has caused all the friction between the board of health and the loan fund members. The board of health answered their letter with the statement that they had sent what information they had to the governor. When the governor sent its letter to the loan fund commission the other day it was found that there was no direct reply to their request for recommendations, nothing but these reports which the board had compiled showing that the reservoir was not in a sanitary condition. The commission had asked for recommendations and did not get them. That is why they wrote to the board of health again, asking that their letter of February be answered.

In his letter to Dr. Currie Dr. Pratt says, "As to the insanitary condition of No. 4 reservoir, in my opinion there can be no doubt." He declares that the only way that it can be put into proper condition is by taking into consideration the other three reservoirs, and the entire watershed. "No. 4 reservoir could not in my opinion be absolutely protected so that it would at all times be sanitary," he says. To make the water of the reservoir even fairly safe, he says, it would be necessary to clean out all vegetation from the site, construct a close wire fence on both sides of the road from the Pali to below the reservoirs, put concrete gutters along the road so that all drainage from the road would be carried off and conduits put in under the road to carry off the water from the water shed on the Ewa side of the road. Other recommendations are that all reservoirs be fenced in, Reservoir No. 1 be concreted, and a filtration plant installed below No. 2 reservoir. After setting forth these facts and recommendations Dr. Pratt asks Dr. Currie a series of questions, answers to which are contained in the next exhibit of the governor's communication.

Currie Again Takes Decided Stand.
Dr. Currie's reply, dated February 24, states that he agrees with Dr. Pratt in his recommendations. In answer to

MISTAKE IN FIGURE SAID TO BE ONE CAUSE FOR NUUANU CONFLICT

A typographical error, discovered yesterday afternoon by Superintendent Harry Murray and Engineer Fred Kirchoff of the city water works department, is believed to be responsible for the wide discrepancy in the figures on power arrived at by the city and by Governor Pinkham in connection with the Nuuanu water controversy. Murray and Kirchoff have been figuring that the city could get 240 horsepower on an eight-hour run after the Hillebrand glen project, with its additional water supply, was put through. The governor's figures on the other hand showed but about 54 horsepower possible. The governor has declared that not enough power was in sight to warrant the Hillebrand glen project on the basis of power increase.

Yesterday Murray and Kirchoff found that the governor's figures, made by Superintendent of Public Works Forbes, were secured by starting with a fall of only 49 feet from reservoir No. 4 to reservoir No. 3. The city officials declare that the fall in reality is 149 and a fraction, thus giving very much more "head" for power. Then they checked back and found that in the 1915 statistics, made by the city water office, the height of reservoir No. 3 above sea level is given as 946 feet, whereas it should be but 846.

"In printing the report a 9 was made instead of an 8, and that is at the bottom of the whole discrepancy in my opinion," said Murray today. "The governor's figures were based on this erroneous height of No. 3 reservoir. We know the fall is about 150 feet instead of 49. Other reports from us with the fall correctly given were before the loan fund commission, but apparently the error was never noticed."

the questions he declares that he considers No. 4 reservoir insanitary, that it "is the greatest menace to the public health of Honolulu of any one factor I know," and that it is only luck that has prevented Honolulu from having a cholera carrier visit and infect the watershed with the terrible consequences which would follow. He asserts that if Dr. Pratt's recommendations are carried out and experts secured to run the filtration plant the water would be reasonably safe.

In reply to the question "Do you consider it a wise policy to conduct any additional water from a possibly uncontaminated watershed like Hillebrand glen's into No. 4?" he says that he thinks it would be very unwise to divert the water under present conditions, but that if all the precautions suggested by Dr. Pratt are taken he sees no objections.

A letter from Dr. Pratt to the governor, dated March 21, follows. He tells of an inspection of Hillebrand glen made the day before, in company with S. W. Tay, the board's sanitary engineer. He declares that it would be possible to fence it off and prevent pollution by trespass. He says that there is considerable vegetation in the valley and that in times of freshet much organic matter would be carried in the water, which would give it considerable color and taste. The impounding of this water in a reservoir would make it still more objectionable than in time of freshet as the organic matter would accumulate and decay," he says.

Water Analysis Made.
Analysis of water taken from three places in the glen, made by Mr. Tay, follows. He declares that the analysis is typical of local surface waters when taken from flowing streams. He calls attention to a strong odor observed by Dr. Pratt and himself the day before and declares that it was from rotting vegetable matter in the water.

Another report from Tay, showing the flow of water in Hillebrand stream on March 29, follows. Two measurements were taken at different points. One showed a flow of 22,000 gallons in 24 hours, the other 29,000. Two other measurements, taken April 1, follow. These were made by Roger C. Rice, assistant engineer, United States Geological Survey. At one point there was a flow of 230,000 gallons a day, and at another 40,000.

Rainfall data, furnished by A. M. Hamrick, meteorologist, makes exhibit B. Computations by the superintendent of public works, Charles R. Forbes, of the "over" to be obtained on a head of 49 feet with a run of a million gallons a day make up the last of the exhibits.

Enclosed with the report was a copy of rules of the board of commissioners of agriculture and forestry prohibiting trespassing on the upper Nuuanu valley lands, together with explanatory letters.

NEW ATTRACTION AT HEINIS'S

The Dancing Tyrrells will appear at Heinis's Tavern this evening in an exhibition of fancy dancing, beginning at 10:30. They will put on a vaudeville act at 12 o'clock. Meyers and Klotz, who have proved a very popular attraction, will furnish the dance music. Miss Grace Thomson, the charming soprano, will appear at classic and popular songs.—Adv.

MISS ETHEL HART AND W. H. STONE TO MARRY

Announcement of the engagement of Miss Ethel E. Hart and William H. Stone has been made by Mrs. Eliza Bolton. The wedding will be held next Saturday with Rev. Samuel K. Kamaio, assistant pastor of the Kaunakapili church, officiating. After a brief honeymoon the couple will be at home in a new bungalow in Liliha street, the gift of Mrs. Bolton. Mr. Stone is associated with the Honolulu Gas Company.

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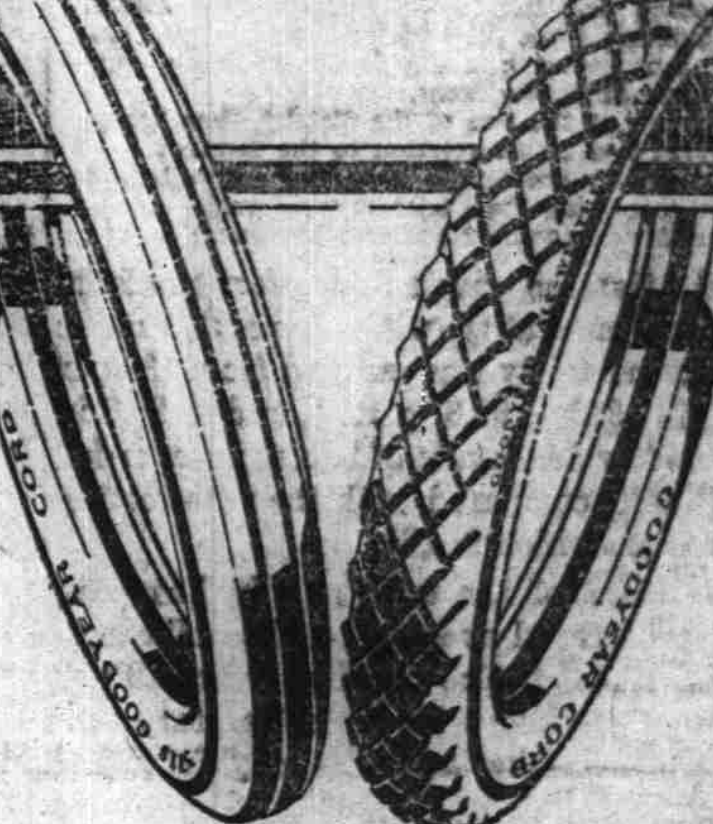
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